

CLAIMS

What is claimed is:

1. A white balance processing apparatus comprising:
white balance processing means for effecting white balance processing on a taken image based on a set white balance value;
storage means for storing white balance values employed in said white balance processing of past taken images; and
employed value setting means for setting a white balance value employed in the past, stored in the storage means as the white balance value for the taken image.
2. The white balance processing apparatus according to claim 1 further comprising:
detected value setting means for detecting and setting a white balance value to be set for said white balance processing from the taken image,
wherein said storage means stores the white balance value set by said detected value setting means and employed in said white balance processing as a white balance value employed in the past.
3. The white balance processing apparatus according to claim 2 further comprising:
selection means for selecting said employed value setting means or said detected value setting means as means for setting said white balance value; and
forced setting means for, when said detected value setting means is selected by the selection means, switching said detected value setting means to said employed value setting means only during a specifically designated period.
4. The white balance processing apparatus according to claim 3 further comprising:
register means for causing the white balance value employed in the white

balance processing of the taken image displayed on a display means to be stored to said storage means.

5. The white balance processing apparatus according to claim 1 further comprising:

preset value storage means for storing preset white balance values that are previously set white balance values;

correction means for correcting said preset white balance values; and

corrected preset value setting means for setting said corrected preset white balance value for said white balance processing;

wherein said storage means stores said corrected preset white balance value set and employed in said white balance processing as said white balance value employed in the past.

6. The white balance processing apparatus according to claim 1 further comprising:

retaining means for retaining a white balance value employed in the white balance processing at said white balance processing means; and

register means for registering the white balance value retained at the retaining means to said storage means.

7. The white balance processing apparatus according to claim 6, wherein said retaining means retains a plurality of white balance values employed in said white balance processing, and wherein said register means selects a predetermined white balance value from said plurality of white balance values and registers it to said storage means.

8. A white balance processing apparatus comprising:

white balance processing means for effecting white balance processing on a taken image based on a set white balance value; and

setting means for setting, as the white balance value for said white balance processing, a white balance value read out from recorded taken image data, employed in white balance processing of that taken image.

9. The white balance processing apparatus according to claim 1, further comprising:

setting enabling means for enabling a setting of said white balance value only when there is a coincidence between presence/absence of flash emission for the taken image and presence/absence of flash emission for image taken at the time of acquiring the white balance value set for the white balance processing of said taken image.

10. A white balance processing method comprising the steps of:

storing a white balance value employed in white balance processing of past taken image; and

effecting white balance processing on a taken image by using the stored white balance value employed in the past as the white balance value for the taken image.

11. The white balance processing method according to claim 10, wherein said stored white balance value employed in the past is a white balance value detected from a taken image processed in the past and is the white balance value employed in the white balance processing of the taken image.

12. A white balance processing program for causing a computer to execute the procedures of:

storing a white balance value employed in white balance processing of past taken image; and

effecting white balance processing on a taken image by using the stored white balance value employed in the past as the white balance value for the taken

image.

13. A white balance processing apparatus comprising:

white balance processing means for effecting white balance processing on an image to be taken;

color histogram processing means for effecting histogram processing by color components in accordance with said image to be taken processed of white balance by the white balance processing means; and

display means for displaying histograms by color components obtained by the color histogram processing means.

14. The white balance processing apparatus according to claim 13, wherein said color histogram processing means effects histogram processing by color components by separating said image to be taken of an entire image frame and said image to be taken of a specific regional portion set within the image frame.

15. The white balance processing apparatus according to claim 14, wherein said display means displays by color components the histogram concerning said entire image frame and the histogram concerning the specific regional portion by said color histogram processing means so that they can be compared with each other.

16. The white balance processing apparatus according to claim 13 further comprising:

display control means for effecting control to display said histograms by color components on said display means when a setting screen for setting white balance is displayed on said display means.

17. The white balance processing apparatus according to claim 13, wherein said display means concurrently displays information concerning adjusting

conditions of white balance of said white balance processing means.

18. The white balance processing apparatus according to claim 17, wherein said information concerning the adjusting conditions of white balance comprises information indicating types of mode of white balance that can be selected.

19. The white balance processing apparatus according to claim 17, wherein said information concerning the adjusting conditions of white balance comprises information concerning ratio about a specific color component processed of said histogram processing.

20. The white balance processing apparatus according to claim 13, wherein said display means in addition concurrently displays said image to be taken.

21. The white balance processing apparatus according to claim 20, wherein said display means additionally displays a white balance detecting region on said image to be taken.

22. The white balance processing apparatus according to claim 13, wherein said color histogram processing means effects histogram processing by three color components of RGB.

23. A white balance processing method comprising the steps of:
effecting white balance processing on an image to be taken;
effecting histogram processing by color components in accordance with said image to be taken processed of said white balance processing; and
displaying histograms by color components obtained by said histogram processing together with said image to be taken.

24. A white balance processing program for causing a computer to execute the procedures of:

effecting white balance processing with respect to an image to be taken;

effecting histogram processing by color components in accordance with said image to be taken processed of said white balance processing; and

displaying histograms by color components obtained by said histogram processing together with said image to be taken.

25. A digital camera, including a white balance processing apparatus, the apparatus comprising:

white balance processing means for effecting white balance processing on an image to be taken;

color histogram processing means for effecting histogram processing by color components in accordance with said image to be taken processed of white balance by the white balance processing means; and

display means for displaying histograms by color components obtained by the color histogram processing means.

26. A digital camera, including a white balance processing apparatus, the apparatus comprising:

white balance processing means for effecting white balance processing on a taken image based on a set white balance value;

storage means for storing white balance values employed in said white balance processing of past taken images; and

employed value setting means for setting a white balance value employed in the past, stored in the storage means as the white balance value for the taken image.

27. The digital camera according to claim 26, wherein the white balance

processing apparatus further comprises:

setting enabling means for enabling a setting of said white balance value only when there is a coincidence between presence/absence of flash emission for the taken image and presence/absence of flash emission for image taken at the time of acquiring the white balance value set for the white balance processing of said taken image.